

IN THE CLAIMS

1 (Currently Amended). A method comprising:
microfabricating a vacuum sensor; ~~and~~
enclosing said vacuum sensor with an integrated circuit inside an enclosure; and
supporting said sensor in a raised portion over a substrate on an upwardly extending
contact.

2 (Original). The method of claim 1 including integrating said vacuum sensor and said integrated circuit in the same substrate.

3 (Original). The method of claim 1 including integrating said vacuum sensor and said integrated circuit on separate dice and enclosing said separate dice in the same enclosure.

4 (Original). The method of claim 1 including microfabricating the vacuum sensor as a serpentine wire.

5 (Original). The method of claim 4 including microfabricating the sensor as a suspended, serpentine wire.

6 (Original). The method of claim 4 including forming a contact on a surface, said contact coupled to said wire.

7 (Original). The method of claim 6 including making said contact U-shaped.

8 (Original). The method of claim 1 including providing an enclosure that covers said vacuum sensor and said integrated circuit and provides a hermetically sealed chamber.

9 (Original). The method of claim 8 including providing an electrical connection under said enclosure to the exterior of said chamber.

10 (Currently Amended). An integrated circuit device comprising:
a microfabricated vacuum sensor including a serpentine wire, and a contact coupled to said wire, said contact including a vertical portion extending upwardly to said wire;
an integrated circuit;
an enclosure; and
a substrate, said enclosure mounted on said substrate and enclosing both said vacuum sensor and said circuit within said enclosure.

11 (Original). The device of claim 10 wherein said vacuum sensor and said integrated circuit are monolithically integrated in the same die.

12 (Original). The device of claim 10 wherein said vacuum sensor and integrated circuit are on separate dice.

Claim 13 (Canceled).

14 (Currently Amended). The device of claim 10 ~~13~~ wherein said wire is suspended.

Claim 15 (Canceled).

16 (Currently Amended). The device of claim 10 ~~15~~ wherein said contact is U-shaped.

Claim 17 (Canceled).

18 (Original). The device of claim 10 wherein said enclosure is hermetically sealed.

19 (Original). The device of claim 18 including an electrical connection extending under said enclosure to the exterior of said enclosure.

20 (Currently Amended). An integrated circuit device comprising:
a substrate;
a vacuum sensor integrated in said substrate including a serpentine wire, and a contact coupled to said wire, said contact including a vertical portion extending upwardly to said wire;
an integrated circuit integrated in said substrate; and
an enclosure, said enclosure mounted on said substrate and enclosing both said vacuum sensor and said integrated circuit within said enclosure.

Claim 21 (Canceled).

22 (Currently Amended). The device of claim 20 ~~21~~ wherein said wire is suspended.

Claim 23 (Canceled).

24 (Currently Amended). The device of claim 20 ~~23~~ wherein said contact is U-shaped.

Claim 25 (Canceled).

26 (Original). The device of claim 20 wherein said enclosure is hermetically sealed.

27 (Original). The device of claim 26 including an electrical connection extending under said enclosure to the exterior of said enclosure.